### **ENVIRONMENTAL CHEMISTS**

Date of Report: 11/02/98 Date Received: 10/28/98

Project: Metro Grab (KC), PO# M77563

Date Samples Extracted: 10/28/98 Date Extracts Analyzed: 10/29/98

## RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

## Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID	Chromium	Copper	Nickel	Zinc
M77563	1.3	0.73	1.3	0.12
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

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Date of Report: 11/02/98 Date Received: 10/28/98

Project: Metro Grab (KC), PO# M77563

## QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 810074-01 (Duplicate)

						Relatr	ve		
		Reporting	Sample	$\mathbf{I}$	Duplicate	e Percei	nt 🕆	Acceptan	ce
	Analyte	Units	Result		Result	Differe:	nce	Criteria	ì
1	Chromium	mg/L (ppm)	0.76		0.76	0		0-20	15.
	Copper	mg/L (ppm)	0.64		0.58	10		0-20	
	Nickel	mg/L (ppm)	0.66		0.63	5		0-20	
	Zinc	mg/L (ppm)	0.17		0.18	6		0-20	

Laboratory Code: 810074-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recove	ery % Recover	y Acceptance	18.5
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD
Chromium	mg/L (ppm)	5	0.76	105	104	80-120	1
Copper	mg/L (ppm)	5	0.64	87	88	80-120	1
Nickel	mg/L (ppm)	10	0.66	104	105	80-120	1
Zinc	mg/L (ppm)	5	0.17	113	115	80-120	2

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ery % Recove	ry Acceptance	3	
Analyte	Units	Level	LCS	LCSD	Criteria	RPI	)
Chromium	mg/L (ppm)	5	106	106	80-120	0	
Copper	mg/L (ppm)	5	101	100	80-120	1	
Nickel	mg/L (ppm)	10	108	108	80-120	0	
Zinc	mg/L (ppm)	5	111	111	80-120	0	

810158

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

10/28/98

# SAMPLE CHAIN OF CUSTODY

Send Report To: Markon Copper Works Contact Geraco A. Thangon										
Address 628 Aprilog ST										
City, State, Zip Seadtle WA 98134										
Phone # (206) FAX # Date										
SITE NO. PROJECT NAME PURCHASE ORDER #										
7238 Metro Grob (KC) m 77563										
SAMPLERS (signature)  PROJECT LOCATION										
3200 6th Augs										
REMARKS						SPOSAL INFO				
Asap					Dispo Return	se after 30 day n Samples or Instructions	'S			
Sample #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #		Analyses Requested				
M 77563	1728/58 19:42	1420	/	.01	CK	Cu N.	لدح			
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SIGNATURE	PR	INT NAME		COMPANY		Date	Time			
Relinquisted by	BEN	160 Thomp.	ريع	ACW	10	/28/88	1:05pm			
Received by	MANUE	L MARTI	F	-LBT.	- le	120/98	1:05 pm			
Refundationed by:										
Received by:										

FORMS/COC

10/22/98

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 2, 1998

### **DUPLICATE COPY**

### **INVOICE #98ACU1102-3**

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Grab (KC), PO# M77563: Results of testing requested by Gerry Thompson for material submitted on October 28, 1998.

1 water sample analyzed for	
Chromium, Copper, Nickel, and Zinc	
using Method 6010 @ \$65 per sample	\$ 65.00
보통 - 프랑스 (프랑스 스타트) 스타트 (프랑스 프랑스 스타트) - 프로스 (프라스 트로스) 	
100% rush surcharge for 24 hour turnaround	<u>65.00</u>
Amount Due	\$ 130.00

FEDERAL TAX ID (b) (6)

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 2, 1998

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 28, 1998 from your Metro Grab (KC), PO# M77563 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Marti Project Manager

Enclosures ACU1102R.DOC